

Spindle Integration for Material Removal Automation

Precision components machined by CNC robot machining systems require compact, lightweight, and high-speed motorized spindles capable of delivering higher efficiency, performance, and reliability than those used in many other industries. That's why milling, cutting, trimming, grinding, polishing, and deburring applications demand Precision Drive Systems (PDS) to provide the accurate and dependable spindles they need to perform to the most exacting standards.





ABOUT PDS

PDS provides high-speed motorized spindles that are specifically designed for robotic machining, which features:

- > Lightweight construction to minimize payload stress
- > Advanced sealing minimizing the risk of contamination threats
- > Designs for extended reach machining operations
- > Ability to operate at multiple orientations and angles
- > Simple installation and use

KEEPING PRODUCTION MOVING

PDS provides the robotics industry with a wide variety of products and services, including:

- > Spindles designed, built to customer application
- > High and low-speed, high torque spindles
- > Replacement spindles
- > Automatic tool-change (ATC) spindles
- > Manual tool-change (MTC) spindles
- > Spindle repair
- > Spindle health monitoring
- > End effectors
- > Custom engineering
- > Shielded cable harnesses



SPINDLE EXPERTISE FOR A VARIETY OF APPLICATIONS

PDS' line of spindles is engineered to work well with a variety of substrates, including:

- > Wood/OSB/MDF
- > Plastics
- > Composites
- > Non-ferrous metal
- > Ferrous metal
- > Fiberglass

Ask about our industry leading optional 24-Month Warranty and Industry 4.0 Spindle Health Monitoring System.



Contact PDS today to schedule an application review and spindle recommendation.



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